## **HEARING EXHIBIT NO. 15**

(Merits Hearing of 4/3-4/2018)
In the matter of Docket No. 2017-292-WS:
Application of Carolina Water Service, Incorporated,
for Approval of an Increase in Its Rates
for Water and Sewer Services

true copy of the original.

Date \_\_8/30/18







#### ORS BUSINESS OFFICE COMPLIANCE REVIEW

Utility: Carolina Water Service, Inc.
Inspector: Matthew Schellinger

Office: Corporate: 2335 Sanders Road, Northbrook, IL

Local Office: 150 Foster Brothers Drive, West Columbia, SC

Utility Type: Water and Wastewater Utility

Date: November 2017 – February 2018

Company Representative: Michael Cartin, Bob Gilroy

#	Compliance Regulation	In Compliance	Out of Compliance	Comments
1	All records and reports available for examination in accordance with R.103-510 and R. 103-710.	Х	Соприансе	Customers can contact CWS representatives via telephone, email, or visit local office
2	Complaint records maintained in accordance with R.103-516 and R. 103-716.	X		All customer complaints are inserted into CWS database which tracks service orders, complaint types and related resolutions.
3	Utility's rates, its rules and regulations, and its up-to-date maps and plans available for public inspection in accordance with R.103-530 and R.103-730.	Х		
4	Established procedures to assure that every customer making a complaint is made aware that the utility is under the jurisdiction of the Commission and that the customer has the right to register the complaint in accordance with R.103-530 and R. 103-730.	X		
5	Deposits charged within the limits established by R.103-531 and R. 103-731.	X		Customer deposits charged in compliance with regulations
6	Timely and accurate bills being rendered to customers in accordance with R.103-532 and R.103-732.		X	Meter Reader issue caused CWS to bill multiple months of estimated bills.
7	Bill forms in accordance with R.103-532 and R.103-732.	X		Bill form is clear with adequate after-hours emergency contact information.
8	Adjustments of bills handled in accordance with R.103-533 and 103-733.	X		Invoice adjustments are compliant with R.103-533 and 103-733.

#	Compliance Regulation	In Compliance	Out of Compliance	Comments
9	Policy for customer denial or discontinuance of service in accordance with R.103-535 and 103-735.	X		
10	Notices sent to customers prior to termination in accordance with R.103-535 and 103-735.	X		
11	Notices filed with the Commission of any violation of PSC or DHEC rules which affect service provided to its customers in accordance with rule R.103-514-C and 103-714-C.		X	CWS has not notified the Commission and ORS within 14 days after the violation had been corrected.
12	Utility has adequate means (telephone, etc.) whereby each customer can contact the water and/or wastewater utility at all hours in case of emergency or unscheduled interruptions or service in accordance with R.103-530 and 103-730.	X		
13	Records maintained of any condition resulting in any interruption of service affecting its entire system or major division, including a statement of time, duration, and cause of such an interruption in accordance with R.103-514 and 103-714.	X		
14	Utility advised the Commission, in accordance with Rule 103-512 of the name, title, address and telephone number of the person who should be contacted in connection with general management duties, customer relations, engineering operations, and emergencies during non-office hours.	X		
15	Company verified the maps on file with the Commission include all the service area of the company.	X		
16	Number of customers the company has at present time.	NA	NA	CWS provides service to 16,323 active water and 13,575 active sewer customers.
17	Company has a current performance bond on file with the Commission. Combined Amount of bond: \$700,000	X		CWS currently has a letter of credit on file with the PSC/ORS. The bond amount is \$350,000 for water service and \$350,000 for sewer service.
18	Company has a current annual report on file with the Office of Regulatory Staff.	X		
19	Company has paid annual Gross Receipts assessment.	X		



#### ORS WATER SYSTEM INSPECTION REPORT

#### **Inspection Overview**

**Date Inspected:** February 20, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

Utility Name:Carolina Water Service, Inc. – River HillsUtility Representative:Mac Mitchell, Steven Friel, Mike Davis

**Number of Customers:** 4004 customers

System Type (distribution, well, etc): Distribution, purchased water from York County (which is purchased

from City of Rock Hill)

**Location of System:** River Hills, Lake Wylie, York County

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

**Treatment Type:** None **Permit #:** 4650006

**Last SC DHEC Compliance Rating:** Satisfactory – October 30, 2017

Frequency checked by Licensed Daily

**Operator:** 

Wastewater Provider: Carolina Water Service, Inc., & septic

	System Components	Specific Type	#	Capacity	Compl	liance	Comments
	Inspected				Yes	No	
1	Well Sites						Purchases water from York County
2	Pump Houses						N/A
3	Storage Tank	Pressurized					N/A
3a	Storage Tank	Non-Pressurized					N/A
3b	Storage Tank	Overhead					See comment below
4	Chlorinator						N/A
5	Other Chemicals in use						N/A
6	Meters				X		
7	Hydrants				X		Fire protection & flushing
8	Electrical Wiring acceptable				X		
9	Piping acceptable				X		
10	System free of leaks				X		
11	Access road adequate				X		
12	Ability for service area to expand				X		



#### **ORS WATER SYSTEM INSPECTION REPORT**

#### **Inspection Overview**

Date Inspected:February 22, 2018Inspector Name:Matthew SchellingerDocket Number:2017-292-WS

**Utility Name:** Carolina Water Service, Inc. – Indian Fork/Forty Love

Utility Representative:Mac MitchellNumber of Customers:212 customers

System Type (distribution, well, etc): Well system with storage and distribution – See Below

**Location of System:** Chapin area

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

**Treatment Type:** Chlorination, corrosion inhibitor, pH adjustment – See Below

**Permit #:** 3250066

**Last SC DHEC Compliance Rating:** Needs Improvement – November 24, 2015

Frequency checked by Licensed Daily

**Operator:** 

Wastewater Provider: Carolina Water Service, Inc., septic

	System Components Inspected	Specific Type	#	Capacity	Comp	liance	Comments
					Yes	No	-
1	Well Sites	bored	6		X		2 wells have been abandoned
2	Pump Houses		1		X		
3	Storage Tank	Pressurized	4		X		See below
3a	Storage Tank	Non-Pressurized					N/A
3b	Storage Tank	Overhead					N/A
4	Chlorinator				X		
5	Other Chemicals in use				X		
6	Meters				X		
7	Hydrants				X		Flushing only
8	Electrical Wiring acceptable				X		
9	Piping acceptable				X		
10	System free of leaks				X		
11	Access road adequate				X		
12	Ability for service area to expand				X		

<u>Additional Comments:</u> Since the completion of the last sanitary survey, Forty Love has been converted to a purchased water system interconnected with Richland County. This removed the wells from the system and allows the service area to expand.



#### **ORS WATER SYSTEM INSPECTION REPORT**

#### **Inspection Overview**

Date Inspected:February 22, 2018Inspector Name:Matthew SchellingerDocket Number:2017-292-WS

**Utility Name:** Carolina Water Service, Inc. – Stonegate

Utility Representative:Mac MitchellNumber of Customers:137 customers

System Type (distribution, well, etc.): Well system with storage

**Location of System:** Chapin area

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC **Treatment Type:** Chlorination, corrosion inhibitor, pH adjustment

**Permit #:** 4050014

**Last SC DHEC Compliance Rating:** Unsatisfactory – November 2, 2017

Frequency checked by Licensed Daily

**Operator:** 

Wastewater Provider: Carolina Water Service, Inc., Septic

	System Components	Specific Type	#	Capacity	Comp	liance	Comments
	Inspected				Yes	No	
1	Well Sites	bored	3		X		Well 3 - Offline
2	Pump Houses		1		X		
3	Storage Tank	Pressurized	1	10k gal	X		
3a	Storage Tank	Non-Pressurized					N/A
3b	Storage Tank	Overhead					N/A
4	Chlorinator				X		
5	Other Chemicals in use				X		
6	Meters				X		
7	Hydrants				X		Flushing only
8	Electrical Wiring acceptable				X		
9	Piping acceptable				X		
10	System free of leaks		•		X		
11	Access road adequate		•		X		
12	Ability for service area to expand				X		

<u>Additional Comments:</u> CWS is currently investigating plans to interconnect with the City of Columbia for water service.



#### **ORS WATER SYSTEM INSPECTION REPORT**

#### **Inspection Overview**

Date Inspected:February 22, 2018Inspector Name:Matthew SchellingerDocket Number:2017-292-WS

Utility Name: Carolina Water Service, Inc. – Lake Village

 Utility Representative:
 Mac Mitchell

 Number of Customers:
 88 customers

 System Type (1) at 11 discussions
 Well and district

System Type (distribution, well, etc): Well and distribution

**Location of System:** Leesville, SC

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC **Treatment Type:** Chlorination, corrosion inhibitor, pH adjustment

**Permit #:** 3250054

**Last SC DHEC Compliance Rating:** Satisfactory – October 24, 2017

Frequency checked by Licensed Daily

**Operator:** 

Wastewater Provider: Town of Lexington, Septic

	System Components	Specific Type	#	Capacity	Comp	liance	Comments
	Inspected				Yes	No	-
1	Well Sites		3		X		2 Abandoned – 1 Offline
2	Pump Houses		3		X		
3	Storage Tank	Pressurized	1	10K	X		
3a	Storage Tank	Non-Pressurized					N/A
3b	Storage Tank	Overhead					N/A
4	Chlorinator				X		
5	Other Chemicals in use				X		
6	Meters				X		
7	Hydrants				X		Flushing only
8	Electrical Wiring acceptable				X		
9	Piping acceptable				X		
10	System free of leaks				X		
11	Access road adequate				X		
12	Ability for service area to expand				X		

<u>Additional Comments:</u> Met with one customer in the subdivision. Town of Lexington appears to be reading meters and billing customers based on water consumption for sewer service.



#### **ORS WATER SYSTEM INSPECTION REPORT**

#### **Inspection Overview**

**Date Inspected:** February 20, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

Utility Name:Carolina Water Service, Inc. - CarowoodsUtility Representative:Mac Mitchell, Steven Friel, Mike Davis

Number of Customers: 82 customers

**System Type** (distribution, well, etc): Well and distribution

**Location of System:** Carowoods, Rock Hill, York County

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC **Treatment Type:** Chlorination, corrosion inhibitor, pH adjustment

**Permit #:** 4650035

**Last SC DHEC Compliance Rating:** Satisfactory – October 23, 2017

Frequency checked by Licensed Daily

**Operator:** 

Wastewater Provider: Carolina Water Service, Inc.

	System Components	Specific Type	#	Capacity	Comp	liance	Comments
	Inspected				Yes	No	-
1	Well Sites		2		X		
2	Pump Houses		1		X		
3	Storage Tank	Pressurized	1	10K	X		
3a	Storage Tank	Non-Pressurized					N/A
3b	Storage Tank	Overhead					N/A
4	Chlorinator				X		
5	Other Chemicals in use				X		
6	Meters				X		
7	Hydrants				X		Flushing only
8	Electrical Wiring acceptable				X		
9	Piping acceptable				X		
10	System free of leaks				X		
11	Access road adequate				X		
12	Ability for service area to expand				X		

Additional Comments: Well house and tank in excellent condition and weatherized for winter months.



#### **ORS WATER SYSTEM INSPECTION REPORT**

#### **Inspection Overview**

**Date Inspected:** February 20, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

Utility Name:Carolina Water Service, Inc. – FoxwoodUtility Representative:Mac Mitchell, Steven Friel, Mike Davis

Number of Customers: 217 customers

System Type (distribution, well, etc): Distribution Only, Purchased Water

**Location of System:** Chapin, SC

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

**Treatment Type:** None **Permit #:** 4650008

**Last SC DHEC Compliance Rating:** Satisfactory – October 23, 2017

Frequency checked by Licensed Operator: Daily

Wastewater Provider: Carolina Water Service, Septic

	<b>System Components Inspected</b>	Specific Type	#	Capacity	Comp	liance	Comments
					Yes	No	
1	Well Sites						N/A
2	Pump Houses						N/A
3	Storage Tank	Pressurized					N/A
3a	Storage Tank	Non- Pressurized					N/A
3b	Storage Tank	Overhead					N/A
4	Chlorinator						No treatment by CWS
5	Other Chemicals in use						No treatment by CWS
6	Meters				X		
7	Hydrants				X		Flushing only
8	Electrical Wiring acceptable				X		
9	Piping acceptable				X		
10	System free of leaks				X		
11	Access road adequate				X		
12	Ability for service area to expand				X		



#### **ORS WATER SYSTEM INSPECTION REPORT**

#### **Inspection Overview**

**Date Inspected:** February 20, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

Utility Name:Carolina Water Service, Inc. – ShandonUtility Representative:Mac Mitchell, Steven Friel, Mike Davis

Number of Customers: 67 customers

System Type (distribution, well, etc): Well, Distribution

Location of System: Shandon, Rock Hill, SC

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC **Treatment Type:** Chlorination, corrosion inhibitor, pH adjustment

**Permit #:** 4650009

**Last SC DHEC Compliance Rating:** Satisfactory – October 24, 2017

Frequency checked by Licensed Operator: Daily

Wastewater Provider: Carolina Water Service, Septic

	<b>System Components</b>	Specific Type	#	PSI	Capacity	Comp	liance	Comments
	Inspected					Yes	No	-
1	Well Sites		3			X		Tanker on site supplementing water
2	Pump Houses		1			X		
3	Storage Tank	Pressurized	1		10K Gal	X		
3a	Storage Tank	Non-Pressurized						N/A
3b	Storage Tank	Overhead						N/A
4	Chlorinator					X		
5	Other Chemicals in use					X		
6	Meters					X		
7	Hydrants					X		Flushing Only
8	Electrical Wiring acceptable					X		
9	Piping acceptable					X		
10	System free of leaks					X		
11	Access road adequate					X		
12	Ability for service area to expand					X		

**Additional Comments:** Tanker on site supplementing water usage.



#### ORS WASTEWATER SYSTEM INSPECTION REPORT

#### **Inspection Overview**

**Date Inspected:** February 20, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

Utility Name:Carolina Water Service, Inc. – River HillsUtility Representative:Mac Mitchell, Steven Friel, Mike Davis

Number of Customers: 3530 customers

System Type (collection, force main, lagoon, etc): Collection, forced main

**Location of System:** River Hills, Lake Wylie, York County

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

Treatment Type: None – discharged to York County

Permit #: SSS000752

Last SC DHEC Compliance Rating: N/A
Frequency checked by WWTF Operator: Daily

**Drinking Water Provider:** Carolina Water Service, Inc. & wells

	System Components Inspected	Comp	liance	Comments
		Yes	No	
1	Chlorinator			None
2	Other chemicals in use			None
3	Aerators present			None
4	Plant fenced and locked	X		
5	Warning Signs Visible	X		
6	Fence in good condition	X		
7	Dikes in good condition			None
8	Odor non-existent or limited	X		
9	Grass mowed	X		
10	Duckweed/Algae acceptable			N/A
11	Grease build-up acceptable			None
12	Plant free of debris	X		Manual bar screen
13	Effluent Color acceptable			N/A
14	Lift Stations present	X		62 lift stations located throughout system.
15	Failure Warning System adequate	X		
16	Electric Wiring adequate	X		
17	System free of leaks	X		
18	System free of overflows	X		
19	Access road adequate	X		
20	Ability for service area to expand	X		



#### ORS WASTEWATER SYSTEM INSPECTION REPORT

#### **Inspection Overview**

**Date Inspected:** February 20, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

Utility Name:Carolina Water Service, Inc. - ShandonUtility Representative:Mac Mitchell, Steven Friel, Mike Davis

Number of Customers: 38 customers

System Type (collection, force main, lagoon, etc): Collection, package plant

**Location of System:** Shandon, Rock Hill, York County

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

Treatment Type: Disinfection and dechlorination

**Permit #:** SC0027189

**Last SC DHEC Compliance Rating:** Satisfactory – June 23, 2016

Frequency checked by WWTF Operator: Daily

**Drinking Water Provider:** Carolina Water Service, Inc.

	System Components Inspected	Comp	liance	Comments
		Yes	No	
1	Chlorinator	X		
2	Other chemicals in use	X		Phosphorus and de-chlorination treatment
3	Aerators present	X		
4	Plant fenced and locked	X		
5	Warning Signs Visible	X		
6	Fence in good condition	X		
7	Dikes in good condition			N/A
8	Odor non-existent or limited	X		
9	Grass mowed	X		
10	Duckweed/Algae acceptable			N/A
11	Grease build-up acceptable	X		
12	Plant free of debris	X		
13	Effluent Color acceptable	X		
14	Lift Stations present			None
15	Failure Warning System adequate	X		
16	Electric Wiring adequate	X		
17	System free of leaks	X		
18	System free of overflows	X		
19	Access road adequate	X		
20	Ability for service area to expand	X		

<u>Additional Comments:</u> CWS replaced the lagoon system with a small package plant in 2014. Lagoon is used as equalization basin if needed.



#### ORS WASTEWATER SYSTEM INSPECTION REPORT

#### **Inspection Overview**

**Date Inspected:** February 20, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

**Utility Name:** Carolina Water Service, Inc. – Carowood

Utility Representative: Mac Mitchell, Mike Davis

Number of Customers: 55 customers

System Type (collection, force main, lagoon, etc): Collection, package plant

**Location of System:** Carowoods, Rock Hill, York County

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

Treatment Type: Disinfection and dechlorination

**Permit #:** SC0038113

**Last SC DHEC Compliance Rating:** Satisfactory – November 30, 2016

Frequency checked by WWTF Operator: Daily

**Drinking Water Provider:** Carolina Water Service, Inc.

	System Components Inspected	Comp	liance	Comments
		Yes	No	
1	Chlorinator	X		Tablets
2	Other chemicals in use	X		Sodium sulfite
3	Aerators present	X		
4	Plant fenced and locked	X		
5	Warning Signs Visible	X		
6	Fence in good condition	X		
7	Dikes in good condition			N/A
8	Odor non-existent or limited	X		
9	Grass mowed	X		
10	Duckweed/Algae acceptable			N/A
11	Grease build-up acceptable	X		
12	Plant free of debris	X		
13	Effluent Color acceptable	X		
14	Lift Stations present	X		2 lift stations
15	Failure Warning System adequate	X		
16	Electric Wiring adequate	X		
17	System free of leaks	X		
18	System free of overflows	X		
19	Access road adequate	X		
20	Ability for service area to expand	X		

Additional Comments: Blowers are housed to reduce noise. Plant contains a digester.



#### ORS WASTEWATER SYSTEM INSPECTION REPORT

#### **Inspection Overview**

**Date Inspected:** February 20, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

**Utility Name:** Carolina Water Service, Inc. – Foxwood

**Utility Representative:** Mac Mitchell, Mike Davis

Number of Customers: 219 customers

System Type (collection, force main, lagoon, etc): Collection, gravity flow to activated sludge process

**Location of System:** Foxwood, Fort Mill, SC **Location of Utility Office:** West Columbia, SC

Treatment Type: Chlorination and dechlorination

**Permit #:** SC0027146

**Last SC DHEC Compliance Rating:** Satisfactory – June 23, 2016

Frequency checked by WWTF Operator: Daily

**Drinking Water Provider:** Carolina Water Service

	System Components Inspected	Comp	iance	Comments
	•	Yes	No	
1	Chlorinator	X		Tablets
2	Other chemicals in use	X		Sodium thiosulfate
3	Aerators present	X		Aerated Lagoon
4	Plant fenced and locked	X		
5	Warning Signs Visible	X		
6	Fence in good condition	X		
7	Dikes in good condition			N/A
8	Odor non-existent or limited	X		
9	Grass mowed	X		
10	Duckweed/Algae acceptable			N/A
11	Grease build-up acceptable	X		
12	Plant free of debris	X		Manual bar screen
13	Effluent Color acceptable	X		Clear and good flow
14	Lift Stations present			N/A
15	Failure Warning System adequate	X		
16	Electric Wiring adequate	X		
17	System free of leaks	X		
18	System free of overflows	X		
19	Access road adequate	X		
20	Ability for service area to expand	X		



#### **ORS WASTEWATER SYSTEM INSPECTION REPORT**

#### **Inspection Overview**

**Date Inspected:** February 22, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

**Utility Name:** Carolina Water Service, Inc. – Friarsgate

Utility Representative:Mac MitchellNumber of Customers:3093 customers

System Type (collection, force main, lagoon, etc): Collection, /gravity flow

**Location of System:** Irmo area

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

**Treatment Type:** Biological Treatment using 2 plants – 1.20 MGD WWTF

**Permit #:** SC0036137

**Last SC DHEC Compliance Rating:** Unsatisfactory – June 20 – July 6, 2016

Frequency checked by WWTF Operator: Daily

**Drinking Water Provider:** City of Columbia

	System Components Inspected	Comp	liance	Comments
		Yes	No	
1	Chlorinator			N/A - UV Disinfection installed
2	Other chemicals in use			N/A
3	Aerators present	X		
4	Plant fenced and locked	X		
5	Warning Signs Visible	X		
6	Fence in good condition	X		
7	Dikes in good condition	X		
8	Odor non-existent or limited	X		
9	Grass mowed	X		
10	Duckweed/Algae acceptable	X		
11	Grease build-up acceptable	X		
12	Plant free of debris	X		
13	Effluent Color acceptable	X		
14	Lift Stations present	X		
15	Failure Warning System adequate	X		
16	Electric Wiring adequate	X		
17	System free of leaks	X		
18	System free of overflows	X		
19	Access road adequate	X		
20	Ability for service area to expand	X		

<u>Additional Comments:</u> Effluent discharges via pumping system through a force main to the discharge point in the Saluda River. 300 KW generator onsite to provide backup power. Temporary equalization basin set up, relining of original equalization basin still in progress as of the site visit.



#### **ORS WASTEWATER SYSTEM INSPECTION REPORT**

#### **Inspection Overview**

Date Inspected:February 22, 2018Inspector Name:Matthew SchellingerDocket Number:2017-292-WS

Utility Name: Carolina Water Service, Inc. – Stonegate

Utility Representative:Mac MitchellNumber of Customers:137 customers

System Type (collection, force main, lagoon, etc): Collection, forced main

Location of System: Chapin area

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

Treatment Type: None – discharge to Richland County

Permit #: SSS000753

Last SC DHEC Compliance Rating:No information providedFrequency checked by WWTF Operator:No information providedDrinking Water Provider:Carolina Water Service, Inc.

	System Components Inspected	Comp	liance	Comments
	• •	Yes	No	
1	Chlorinator			None
2	Other chemicals in use			None
3	Aerators present			None
4	Plant fenced and locked	X		
5	Warning Signs Visible	X		
6	Fence in good condition	X		
7	Dikes in good condition			N/A
8	Odor non-existent or limited	X		
9	Grass mowed	X		
10	Duckweed/Algae acceptable			None
11	Grease build-up acceptable			None
12	Plant free of debris	X		
13	Effluent Color acceptable			N/A
14	Lift Stations present	X		
15	Failure Warning System adequate	X		
16	Electric Wiring adequate	X		
17	System free of leaks	X		
18	System free of overflows	X		
19	Access road adequate	X		
20	Ability for service area to expand	X	_	



#### ORS WASTEWATER SYSTEM INSPECTION REPORT

#### **Inspection Overview**

Date Inspected:February 22, 2018Inspector Name:Matthew SchellingerDocket Number:2017-292-WS

**Utility Name:** Carolina Water Service, Inc. – Forty Love

Utility Representative:Mac MitchellNumber of Customers:135 customers

System Type (collection, force main, lagoon, etc): Collection, forced main

**Location of System:** Chapin area

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

**Treatment Type:** None – discharge to Richland County

Permit #: SSS000754

Last SC DHEC Compliance Rating:No information providedFrequency checked by WWTF Operator:No information providedDrinking Water Provider:Carolina Water Service, Inc.

	System Components Inspected	Comp	liance	Comments
		Yes	No	1
1	Chlorinator			None
2	Other chemicals in use			None
3	Aerators present			None
4	Plant fenced and locked	X		
5	Warning Signs Visible	X		
6	Fence in good condition	X		
7	Dikes in good condition			N/A
8	Odor non-existent or limited	X		
9	Grass mowed	X		
10	Duckweed/Algae acceptable			None
11	Grease build-up acceptable			None
12	Plant free of debris	X		
13	Effluent Color acceptable			N/A
14	Lift Stations present	X		
15	Failure Warning System adequate	X		
16	Electric Wiring adequate	X		
17	System free of leaks	X		
18	System free of overflows	X		
19	Access road adequate	X		
20	Ability for service area to expand	X		



#### ORS WASTEWATER SYSTEM INSPECTION REPORT

#### **Inspection Overview**

**Date Inspected:** February 23, 2018

**Inspector Name:** Matthew Schellinger, Willie Morgan

**Docket Number:** 2017-292-WS

Utility Name: Carolina Water Service, Inc. – Palmetto Apartments

Utility Representative:Mac MitchellNumber of Customers:50 customers

System Type (collection, force main, lagoon, etc): Collection – BJWSA Treats

**Location of System:** Beaufort County

**Location of Utility Office:** 150 Foster Brothers Drive, West Columbia, SC

**Treatment Type:** None – discharge to BJWSA

Permit #: SSS000820

Last SC DHEC Compliance Rating:No information providedFrequency checked by WWTF Operator:No information providedDrinking Water Provider:Carolina Water Service, Inc.

	System Components Inspected	Comp	liance	Comments
	• •	Yes	No	
1	Chlorinator			None
2	Other chemicals in use			None
3	Aerators present			None
4	Plant fenced and locked	X		
5	Warning Signs Visible	X		
6	Fence in good condition	X		
7	Dikes in good condition			N/A
8	Odor non-existent or limited	X		
9	Grass mowed	X		
10	Duckweed/Algae acceptable			None
11	Grease build-up acceptable			None
12	Plant free of debris	X		
13	Effluent Color acceptable			N/A
14	Lift Stations present			N/A
15	Failure Warning System adequate	X		
16	Electric Wiring adequate	X		
17	System free of leaks	X		
18	System free of overflows	X		
19	Access road adequate	X		
20	Ability for service area to expand	X		

## Office of Regulatory Staff Revenue Impact Analysis

EXHIBIT MPS-2 Consolidated Page 1 of 7

Carolina Water Service, Inc. Docket No. 2017-292-WS

ORS Calculated Revenue Summary	y - CWS (Service	Ferritory #1 and S	Service Territory #2	)
A	В	C	D	E
	<b>ORS</b> Calculated	Additional	ORS Calculated	
Operating Revenue	Test Year	Revenue at	Revenue at	% Increase
	Revenue	<b>Proposed Rates</b>	Proposed Rates	
Service Territory 1 - Well Water	\$840,119	\$125,357	\$965,476	14.92%
Service Territory 1 - Purchased Water	\$4,958,863	\$1,250,695	\$6,209,558	25.22%
Service Territory 1 - Water - Misc. Revenue	\$116,768	\$5,679	\$122,447	4.86%
Total Service Territory 1 Water	\$5,915,750	\$1,381,731	\$7,297,481	23.36%
Service Territory 2 - Well Water	\$3,447,209	\$624,893	\$4,072,102	18.13%
Service Territory 2 - Purchased Water	\$1,550,886	\$393,476	\$1,944,362	25.37%
Service Territory 2 - Water - Misc. Revenue	\$117,867	\$8,203	\$126,070	6.96%
Total Service Territory 2 Water	\$5,115,962	\$1,026,572	\$6,142,534	20.07%
Service Territory 1 & 2 - Sewer	\$8,941,655	\$2,292,098	\$11,233,753	25.63%
Service Territory 1 & 2 - Sewer - Misc. Revenue	\$262,560	\$21,694	\$284,254	8.26%
Total Service Revenue Sewer	\$9,204,215	\$2,313,792	\$11,518,007	25.14%
Total Water and Sewer Service Revenues	\$20,235,927	\$4,722,095	\$24,958,022	23.34%

**EXHIBIT MPS-2** 

Page 2 of 7

**Service Territory 1 - Water** 

# Office of Regulatory Staff

## **Revenue Impact Analysis**

Carolina Water Service, Inc. Docket No. 2017-292-WS

ORS Pro-Forma Test Year Revenue at Current Rates - Service Territory 1

A	В	C	D	E	F	G
	Customer Classification	Consumption in Gallons <sup>1</sup>	Usage Charge per 1,000 gallons	Annualized Service Units <sup>1</sup>	Base Facility Charge (BFC)	Test Year Revenues (C*D/1000) + (E*F)
	toopyygon, tup, to yy, g	0.50.510	Φ		020.10	Φο 440
	400PWCOM - 1" Purchase Water Commercial	850,740	\$6.67	72	\$38.10	\$8,418
	400PWCOM - 1.5" Purchase Water Commercial	18,100	\$6.67	12	\$76.21	\$1,035
	400PWCOM - 2" Purchase Water Commercial	7,066,100	\$6.67	108	\$121.93	\$60,299
	400PWCOM - 3" Purchase Water Commercial	1,242,100	\$6.67	12	\$228.63	\$11,028
	400PWCOM - 3/4" Purchase Water Commercial	0	\$6.67	12	\$14.64	\$176
	400PWCOM - 5/8" Purchase Water Commercial	2,086,560	\$6.67	288	\$14.64	\$18,134
	400PWCRH - 1" Purchase Water Commercial - Riverhills	5,629,128	\$6.67	432	\$38.10	\$54,005
	400PWCRH - 1.5" Purchase Water Commercial - Riverhills	10,957,130	\$6.67	312	\$76.21	\$96,862
	400PWCRH - 2" Purchase Water Commercial - Riverhills	25,221,428	\$6.67	432	\$121.93	\$220,901
- 4	400PWCRH - 3" Purchase Water Commercial - Riverhills	3,736,632	\$6.67	72	\$228.63	\$41,385
$\simeq$	400PWCRH - 3/4" Purchase Water Commercial - Riverhills	5,096,240	\$6.67	120	\$14.64	\$35,749
$\Box$	400PWCRH - 4" Purchase Water Commercial - Riverhills	1,891,870	\$6.67	24	\$381.16	\$21,767
ATER	400PWCRH - 5/8" Purchase Water Commercial - Riverhills	7,774,151	\$6.67	1,272	\$14.64	\$70,476
	400PWCRH - 8" Purchase Water Commercial - Riverhills	586,181	\$6.67	12	\$1,171.21	\$17,964
1/	400PWRES - 1" Purchase Water Residential	4,206,540	\$6.67	1,068	\$14.64	\$43,693
	400PWRES - 1.5" Purchase Water Residential	1,523,275	\$6.67	660	\$14.64	\$19,823
	400PWRES - 2" Purchase Water Residential	7,775,242	\$6.67	1,812	\$14.64	\$78,389
	400PWRES - 3/4" Purchase Water Residential	122,040	\$6.67	12	\$14.64	\$990
	400PWRES - 4" Purchase Water Residential	220,000	\$6.67	192	\$14.64	\$4,278
	400PWRES - 5/8" Purchase Water Residential <sup>1</sup>	182,773,923	\$6.67	36,216	\$14.64	\$1,749,304
	400PWRRH - Purchase Water Res - RH (All Meter Sizes)	245,189,151	\$6.67	52,512	\$14.64	\$2,404,187
	400WCOM - 1" Commercial	10,180	\$5.69	12	\$38.10	\$515
	400WCOM - 5/8" Commercial	760,332	\$5.69	72	\$14.64	\$5,380
	400WRES - Water Residential (All Meter Sizes)	85,535,594	\$5.69	18,624	\$14.64	\$759,353
	402WRES - Water Residential (All Meter Sizes)	7,940,489	\$5.69	2,028	\$14.64	\$74,871
	Water Service Total	608,213,126		116,388		\$5,798,982
						, do 2 2 2 2
	Miscellaneous Revenues - Late Fees					\$23,933
	New Customer Charges					\$29,911
	Miscellaneous Service Revenue					-\$112
	NSF Check & Reconnect Fee					\$42,150
	Miscellaneous Revenues - Other <sup>3</sup>					\$20,886
	Total Miscellaneous Revenues <sup>2</sup>					\$116,768
	Total Operating Revenues					\$5,915,750

## Office of Regulatory Staff Revenue Impact Analysis

Carolina Water Service, Inc. Docket No. 2017-292-WS

ORS Calculated Proposed Revenue at Company Proposed Rates - Service Territory 1

A	В	С	D	E	$\mathbf{F}$	G	Н	I
	Customer Classification	Consumption in Gallons <sup>1</sup>	Usage Charge per 1,000 gallons	Annualized Service Units <sup>1</sup>	Base Facility Charge (BFC)	Proposed Revenue	Increase Amount	% Increase
	400DWGOM 111D 1 W. C	0.50.540	00.55		0.40.55	<b>\$10.710</b>	1 42.101	24.0.50/
	400PWCOM - 1" Purchase Water Commercial	850,740	\$8.66	72	\$43.77	\$10,519	\$2,101	24.96%
	400PWCOM - 1.5" Purchase Water Commercial	18,100	\$8.66	12	\$87.54	\$1,207	\$172	16.62%
	400PWCOM - 2" Purchase Water Commercial	7,066,100	\$8.66	108	\$140.06	\$76,319	\$16,020	26.57%
	400PWCOM - 3" Purchase Water Commercial	1,242,100	\$8.66	12	\$262.63	\$13,908	\$2,880	26.12%
	400PWCOM - 3/4" Purchase Water Commercial	0	\$8.66	12	\$16.82	\$202	\$26	14.77%
	400PWCOM - 5/8" Purchase Water Commercial	2,086,560	\$8.66	288	\$16.82	\$22,914	\$4,780	26.36%
	400PWCRH - 1" Purchase Water Commercial - Riverhills	5,629,128	\$8.66	432	\$43.77	\$67,657	\$13,652	25.28%
	400PWCRH - 1.5" Purchase Water Commercial - Riverhills	10,957,130	\$8.66	312	\$87.54	\$122,201	\$25,339	26.16%
	400PWCRH - 2" Purchase Water Commercial - Riverhills	25,221,428	\$8.66	432	\$140.06	\$278,923	\$58,022	26.27%
. 4	400PWCRH - 3" Purchase Water Commercial - Riverhills	3,736,632	\$8.66	72	\$262.63	\$51,269	\$9,884	23.88%
$\simeq$	400PWCRH - 3/4" Purchase Water Commercial - Riverhills	5,096,240	\$8.66	120	\$16.82	\$46,152	\$10,403	29.10%
	400PWCRH - 4" Purchase Water Commercial - Riverhills	1,891,870	\$8.66	24	\$437.84	\$26,892	\$5,125	23.54%
TER	400PWCRH - 5/8" Purchase Water Commercial - Riverhills	7,774,151	\$8.66	1,272	\$16.82	\$88,719	\$18,243	25.89%
	400PWCRH - 8" Purchase Water Commercial - Riverhills	586,181	\$8.66	12	\$1,345.36	\$21,221	\$3,257	18.13%
lacksquare	400PWRES - 1" Purchase Water Residential	4,206,540	\$8.66	1,068	\$16.82	\$54,392	\$10,699	24.49%
	400PWRES - 1.5" Purchase Water Residential	1,523,275	\$8.66	660	\$16.82	\$24,293	\$4,470	22.55%
	400PWRES - 2" Purchase Water Residential	7,775,242	\$8.66	1,812	\$16.82	\$97,811	\$19,422	24.78%
	400PWRES - 3/4" Purchase Water Residential	122,040	\$8.66	12	\$16.82	\$1,259	\$269	27.17%
	400PWRES - 4" Purchase Water Residential	220,000	\$8.66	192	\$16.82	\$5,135	\$857	20.03%
	400PWRES - 5/8" Purchase Water Residential <sup>1</sup>	182,773,923	\$8.66	36,216	\$16.82	\$2,191,975	\$442,671	25.31%
	400PWRRH - Purchase Water Res - RH (All Meter Sizes)	245,189,151	\$8.66	52,512	\$16.82	\$3,006,590	\$602,403	25.06%
	400WCOM - 1" Commercial	10,180	\$6.54	12	\$43.77	\$592	\$77	14.95%
	400WCOM - 5/8" Commercial	760,332	\$6.54	72	\$16.82	\$6,184	\$804	14.94%
	400WRES - Water Residential (All Meter Sizes)	85,535,594	\$6.54	18,624	\$16.82	\$872,658	\$113,305	14.92%
	402WRES - Water Residential (All Meter Sizes)	7,940,489	\$6.54	2,028	\$16.82	\$86,042	\$11,171	14.92%
	Water Service Total	608,213,126		116,388		\$7,175,034	\$1,376,052	23.73%
	Miscellaneous Revenues - Late Fees <sup>4</sup>					\$29,612	\$5,679	23.73%
	New Customer Charges					\$29,911	\$0	0.00%
	Miscellaneous Service Revenue					-\$112	\$0	0.00%
	NSF Check & Reconnect Fee					\$42,150	\$0	0.00%
	Miscellaneous Revenues - Other <sup>3</sup>					\$20,886	\$0	0.00%
	Total Miscellaneous Revenues <sup>2</sup>					\$122,447	\$5,679	4.86%

#### Calculation Methodology:

- (1) Consumption based on actual Test Year Billings, addition of 15,186,238 for falsified meter readings. Units based on Annualized end of Test Year Customer Count. Growth factor not included for comparison purposes.
- (2) Customer Deposits and Interest on Deposits are not included in any of the above computations.
- (3) "Miscellaneous Revenues Other" has been increased to account for Home Serve revenues received by CWS, apportioned by customer count for each service territory.
- (4) "Miscellaneous Revenues Late Fees" are increased due to late payment fee increases resulting from the proposed rates requested by CWS.

### **Revenue Impact Analysis**

Carolina Water Service, Inc. Docket No. 2017-292-WS Service Territory 2 - Water Page 4 of 7

**EXHIBIT MPS-2** 

#### ORS Pro-Forma Test Year Revenue at Current Rates - Service Territory 2

A	В	С	D	E	F	G
	Customer Classification	Consumption in Gallons <sup>1</sup>	Usage Charge per 1,000 gallons	Annualized Service Units <sup>1</sup>	Base Facility Charge (BFC)	Test Year Revenue (C*D/1000) + (E*F)
	401WCOM - 5/8" Commercial Water Service	93,790	\$8.88	36	\$24.72	\$1,723
	401WCOM - 1" Commercial Water Service	29,250	\$8.88	12	\$68.81	\$1,085
	401WCOM - 1.5" Commercial Water Service	240,600	\$8.88	24	\$126.45	\$5,171
$\simeq$	401WCOM - 3" Commercial Water Service	38,100	\$8.88	12	\$431.52	\$5,517
TER	401WRES - Water Residential (All Meter Sizes)	223,957,601	\$8.88	55,452	\$24.72	\$3,359,517
	401PWRFW - Foxwood Purchased Water	10,155,689	\$9.41	2,520	\$24.72	\$157,859
<b>A</b>	401WRPUR - 1" Water Distribution and Purchased Water Charge	897,105	\$9.41	48	\$24.72	\$9,628
7/	401WRPUR - 2" Water Distribution and Purchased Water Charge	8,976,895	\$9.41	216	\$24.72	\$89,812
	401WRPUR - 3/4" Water Distribution and Purchased Water Charge	382,431	\$9.41	12	\$24.72	\$3,895
•	401WRPUR - 5/8" Water Distribution and Purchased Water Charge	84,189,851	\$9.41	20,124	\$24.72	\$1,289,692
	403WRES - Water Residential (All Meter Sizes)	5,282,114	\$8.88	1,104	\$24.72	\$74,196
	Water Service Total	334,243,426		79,560		\$4,998,095
	Miscellaneous Revenues - Late Fees					\$40,260
	New Customer Charges					\$25,390
	Miscellaneous Service Revenue					\$0
	NSF Check & Reconnect Fee					\$47,310
	Miscellaneous Revenues - Other <sup>3</sup>					\$4,907
	Total Miscellaneous Revenues <sup>2</sup>		-			\$117,867
	Total Operating Revenues					\$5,115,962

EXHIBIT MPS-2 Service Territory 2 - Water Page 5 of 7

ORS Calculated Proposed Revenue at Company Proposed Rates - Service Territory 2

$\mathbf{A}$	В	C	D	E	F	$\mathbf{G}$	Н	I
	Customer Classification	Consumption in Gallons <sup>1</sup>	Usage Charge per 1,000 gallons	Annualized Service Units <sup>1</sup>	Base Facility Charge (BFC)	Proposed Revenue		% Increase
	401WCOM - 5/8" Commercial Water Service	93,790	\$10.49	36	\$29.20	\$2,035	\$312	18.11%
	401WCOM - 1" Commercial Water Service	29,250	\$10.49	12	\$81.28	\$1,282		18.16%
	401WCOM - 1.5" Commercial Water Service	240,600	\$10.49	24	\$149.36	\$6,109	·	18.14%
$\simeq$	401WCOM - 3" Commercial Water Service	38,100	\$10.49	12	\$509.70	\$6,516		18.11%
TER	401WRES - Water Residential (All Meter Sizes)	223,957,601	\$10.49	55,452	\$29.20	\$3,968,514	· ·	18.13%
	401PWRFW - Foxwood Purchased Water	10,155,689	\$12.19	2,520	\$29.20	\$197,382	. /	25.04%
	401WRPUR - 1" Water Distribution and Purchased Water Charge	897,105	\$12.19	48	\$29.20	\$12,337		28.14%
WA	401WRPUR - 2" Water Distribution and Purchased Water Charge	8,976,895	\$12.19	216	\$29.20	\$115,736		28.86%
	401WRPUR - 3/4" Water Distribution and Purchased Water Charge	382,431	\$12.19	12	\$29.20	\$5,012	·	28.68%
	401WRPUR - 5/8" Water Distribution and Purchased Water Charge	84,189,851	\$12.19	20,124	\$29.20	\$1,613,895	\$324,203	25.14%
	403WRES - Water Residential (All Meter Sizes)	5,282,114	\$10.49	1,104	\$29.20	\$87,646	\$13,450	18.13%
	Water Service Total	334,243,426		79,560		\$6,016,464	\$312 \$197 \$938 \$999 \$608,997 \$39,523 \$2,709 \$25,924 \$1,117 \$324,203 \$13,450 \$1,018,369 \$8,203 \$0 \$0 \$0	20.38%
	Miscellaneous Revenues - Late Fees <sup>4</sup>					\$48,463	\$8,203	20.38%
	New Customer Charges					\$25,390		0.00%
	Miscellaneous Service Revenue					\$0	·	-
	NSF Check & Reconnect Fee					\$47,310	\$0	0.00%
	Miscellaneous Revenues - Other <sup>3</sup>					\$4,907	\$0	0.00%
	Total Miscellaneous Revenues <sup>2</sup>		·			\$126,070	\$8,203	6.96%
	Total Operating Revenues					\$6,142,534	\$1,026,572	20.07%

#### Calculation Methodology:

- (1) Consumption and Units reflected as reported during test year. Growth factor not included for comparison purposes.
- (2) Customer Deposits and Interest on Deposits are not included in any of the above computations.
- (3) "Miscellaneous Revenues Other" has been increased to account for Home Serve revenues received by CWS, apportioned by customer count for each service territory.
- (4) "Miscellaneous Revenues Late Fees" are increased due to late payment fee increases resulting from the proposed rates requested by CWS.

**EXHIBIT MPS-2** 

Sewer

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# Office of Regulatory Staff

#### **Revenue Impact Analysis**

Carolina Water Service, Inc. Docket No. 2017-292-WS

ORS Pro-Forma Test Year Revenue at Current Rates - Service Territory 1 & 2

		<b>Annualized Service</b>	Base Facility	Test Year
	Customer Classification	Units <sup>1</sup>	Charge (BFC)	Revenues
	toowyygoot wyyg	2.620	φ57.50 I	φ151 220
	400WWCOM - WW Commercial (All Meter Sizes)	2,628	\$57.58	\$151,320
	400WWCRH - Commercial WW Treatment - RH (All Meter Sizes)	16,836	\$52.93	\$891,129
	400WWRCP - Residential WW Service (All Meter Sizes)	4,920	\$52.93	\$260,416
SEWER	400WWRES - WW Residential (All Meter Sizes)	72,540	\$57.58	\$4,176,85
	400WWRBJ - Residential WW Service (All Meter Sizes)	1,068	\$52.93	\$56,529
$\sim$	400WWRRH - Residential WW Treatment - YC (All Meter Sizes)	47,076	\$52.93	\$2,491,733
	400WWRTC - Town of Chapin Purchase WW Res (All Meter Sizes)	1,068	\$52.93	\$56,529
M	400WWTRL - WW Trailer Residential (All Meter Sizes)	36	\$42.01	\$1,512
SEWER	400WWTRT - Van Arsdale WW Treatment (All Meter Sizes) <sup>5</sup>	0	\$26.66	\$0
	400WWCCP - Commercial Wastewater Service (Richland County)	24	\$52.93	\$1,270
7	400WWRHT - Riverhills WW Treatment (All Meter Sizes)	108	\$52.93	\$5,716
	401WWRES - Residential WW Service (All Meter Sizes)	4,272	\$57.58	\$245,982
	401WWCOM - Commercial WW Treatment - (All Meter Sizes)	192	\$57.58	\$11,055
SEV	403WWRES - Residential WW Service (All Meter Sizes)	6,864	\$57.58	\$395,229
	403WWMOB - Mobile Home Wastewater Service	1,860	\$42.01	\$78,139
	403WWVLG - Wastewater Residential Collection Charge	3,948	\$29.95	\$118,243
	Sewer Service Total	163,440		\$8,941,65
				Φ04.622
	Miscellaneous Revenues - Late Fees			\$84,632
	New Customer Charges			\$41,897
	Miscellaneous Service Revenue			\$115,560
	NSF Check & Reconnect Fee			\$10,080
	Miscellaneous Revenues - Other <sup>3</sup>			\$10,391
	Total Miscellaneous Revenues <sup>2</sup>			\$262,560
	Total Operating Revenues			\$9,204,215

**Revenue Impact Analysis** Carolina Water Service, Inc.

Docket No. 2017-292-WS

EXHIBIT MPS-2 Sewer Page 7 of 7

ORS Calculated Revenue at Company Proposed Rates - Service Territory 1 and 2

A	В	C	D	E	F	G
		<b>Annualized Service</b>	Base Facility	Proposed	T4	0/ 1
	Customer Classification	Units <sup>1</sup>	Charge (BFC)	Revenue	\$32,009 \$283,350 \$82,803 \$883,537 \$17,975 \$792,289 \$17,975 \$321 \$0 \$404 \$1,818 \$52,033 \$2,339 \$83,604 \$16,572 \$25,069	% Increase
					_	
	400WWCOM - WW Commercial (All Meter Sizes)	2,628	\$69.76	\$183,329		21%
	400WWCRH - Commercial WW Treatment - RH (All Meter Sizes)	16,836	\$69.76	\$1,174,479	, ,	32%
	400WWRCP - Residential WW Service (All Meter Sizes)	4,920	\$69.76	\$343,219	·	32%
	400WWRES - WW Residential (All Meter Sizes)	72,540	\$69.76	\$5,060,390	\$883,537	21%
	400WWRBJ - Residential WW Service (All Meter Sizes)	1,068	\$69.76	\$74,504	\$17,975	32%
	400WWRRH - Residential WW Treatment - YC (All Meter Sizes)	47,076	\$69.76	\$3,284,022	\$792,289	32%
H	400WWRTC - Town of Chapin Purchase WW Res (All Meter Sizes)	1,068	\$69.76	\$74,504	\$17,975	32%
	400WWTRL - WW Trailer Residential (All Meter Sizes)	36	\$50.92	\$1,833	\$321	21%
$\geq$	400WWTRT - Van Arsdale WW Treatment (All Meter Sizes) 5	0	\$32.31	\$0	\$0	0%
SEWER	400WWCCP - Commercial Wastewater Service (Richland County)	24	\$69.76	\$1,674	\$404	32%
	400WWRHT - Riverhills WW Treatment (All Meter Sizes)	108	\$69.76	\$7,534	\$1,818	32%
	401WWRES - Residential WW Service (All Meter Sizes)	4,272	\$69.76	\$298,015	\$52,033	21%
	401WWCOM - Commercial WW Treatment - (All Meter Sizes)	192	\$69.76	\$13,394	\$2,339	21%
	403WWRES - Residential WW Service (All Meter Sizes)	6,864	\$69.76	\$478,833	\$83,604	21%
	403WWMOB - Mobile Home Wastewater Service	1,860	\$50.92	\$94,711	\$16,572	21%
	403WWVLG - Wastewater Residential Collection Charge	3,948	\$36.30	\$143,312	\$25,069	21%
	Sewer Service Total	163,440		\$11,233,753	\$2,292,098	26%
		,		. , ,	. , ,	
	Miscellaneous Revenues - Late Fees <sup>4</sup>			\$106,326	\$21,694	26%
	New Customer Charges			\$41,897	\$0	0%
	Miscellaneous Service Revenue			\$115,560	\$0	0%
	NSF Check & Reconnect Fee			\$10,080	\$0	0%
	Miscellaneous Revenue - Other <sup>3</sup>			\$10,391	\$0	0%
	Total Miscellaneous Revenues <sup>2</sup>		-	\$284,254	\$21,694	8%
	T (10 : 7			φ44 <b>5</b> 40 00 <b>5</b>	Φ2 212 502	2501
	Total Operating Revenues			\$11,518,007	\$2,313,792	25%

#### Calculation Methodology:

- (1) Consumption and Units reflected as reported during test year. Growth factor not included for comparison purposes.
- (2) Customer Deposits and Interest on Deposits are not included in any of the above computations.
- (3) "Miscellaneous Revenues Other" has been increased to account for Home Serve revenues received by CWS, apportioned by customer count for each service territory.
- (4) "Miscellaneous Revenues Late Fees" are increased due to late payment fee increases resulting from the proposed rates requested by CWS.
- (5) Van Arsdale community will now be serviced by Lexington County after the transfer of the I-20 Sewer System.

#### Miscellaneous Revenue Carolina Water Service, Inc. Docket No. 2017-292-WS

	Pe	r Bo	ooks				
	ST1		ST2	ST1&2	Total		
	W		W	S			
Miscellaneous Revenues - Late Fees	\$ 23,933	\$	40,260	\$ 84,632	\$ 148,825		
New Customer Charges	\$ 29,911	\$	25,390	\$ 41,897	\$ 97,198		
Miscellaneous Service Revenue	\$ (112)	\$	-	\$ 115,560	\$ 115,448		
NSF Check & Reconnect Fee	\$ 42,150	\$	47,310	\$ 10,080	\$ 99,540		
Miscellaneous Revenues - Other	\$ 13,651	\$	(40)	\$ 260	\$ 13,871		
Total Miscellaneous Revenues	\$ 109,533	\$	112,920	\$ 252,429	\$ 474,882		
	Pr	) 0 Fo	orma				
	ST1		ST2	ST1&2	Total	Ad	justment
	W		W	S		,	
Miscellaneous Revenues - Late Fees	\$ 23,933	\$	40,260	\$ 84,632	\$ 148,825	\$	-
New Customer Charges	\$ 29,911	\$	25,390	\$ 41,897	\$ 97,198	\$	-
Miscellaneous Service Revenue	\$ (112)	\$	-	\$ 115,560	\$ 115,448	\$	-
NSF Check & Reconnect Fee	\$ 42,150	\$	47,310	\$ 10,080	\$ 99,540	\$	-
Miscellaneous Revenues - Other	\$ 20,886	\$	4,907	\$ 10,391	\$ 36,184	\$	22,313
Total Miscellaneous Revenues	\$ 116,767	\$	117,866	\$ 262,559	\$ 497,195	\$	22,313
	 Aftei	· Pro	oposed				
	ST1		ST2	ST1&2	Total	Ad	ustment
	W		W	S			'
Miscellaneous Revenues - Late Fees	\$ 29,612	\$	48,463	\$ 106,326	\$ 184,401	\$	35,576
New Customer Charges	\$ 29,911	\$	25,390	\$ 41,897	\$ 97,198	\$	
Miscellaneous Service Revenue	\$ (112)	\$	-	\$ 115,560	\$ 115,448	\$	-
NSF Check & Reconnect Fee	\$ 42,150	\$	47,310	\$ 10,080	\$ 99,540	\$	-
Miscellaneous Revenues - Other	\$ 20,886	\$	4,907	\$ 10,391	\$ 36,184	\$	_
Total Miscellaneous Revenues	\$ 122,447	\$	126,069	\$ 284,254	\$ 532,771	\$	35,576

Source: ORS Rates Request #4 - Misc. Revenue Response

Source: ORS AIR 1.50 - Home Serve - \$22,313 allocated to W/WW Service Territory 1 and 2

#### **Customer Growth**

Carolina Water Service, Inc. Docket No. 2017-292-WS

<b>Customer Growth</b>	Service Territory 1 Water	Service Territory 2 Water	Service Territory 1 & 2 Sewer	Consolidated
Date	# of Customers	# of Customers	# of Customers	# of Customers
8/31/2016	9,396	6,573	13,279	29,248
8/31/2017	9,695	6,628	13,575	29,898
Average	9,546	6,601	13,427	29,573
Growth Factor	1.5662%	0.4166%	1.1023%	1.0990%

Source: ORS Rates Request#8 - Cust. Growth Tabs

Source: ORS Rates Request#7 - I-20 Sewer Customer Counts

**Exhibit MPS-5** 

Carolina Water Service, Inc. Docket No. 2017-292-WS

### **WATER**

#### **Service Territory 1**

#### **Monthly Charges - Water Supply Customers Only**

Where water is supplied by wells owned and operated by the Utility, the following rates apply:

	Current	Proposed
Residential		
Base Facilities Charge		
per single-family house,		
condominium, mobile home,		
or apartment unit	\$ 14.64 per unit	\$ 16.82 per unit
Residential Commodity Charge	\$ 5.69 per 1,000 gal.	\$ 6.54 per 1,000 gal.
	or 134 cft.	or 134 cft.
Commercial		
Base Facilities Charge		
by meter size		
5/8" meter *	\$ 14.64 per unit	\$ 16.82 per unit
3/4" meter	\$ 14.64 per unit	\$ 16.82 per unit
1" meter	\$ 38.10 per unit	\$ 43.77 per unit
1.5" meter	\$ 76.21 per unit	\$ 87.54 per unit
2" meter	\$ 121.93 per unit	\$ 140.06 per unit
3" meter	\$ 228.63 per unit	\$ 262.63 per unit
4" meter	\$ 381.16 per unit	\$ 437.84 per unit
8" meter	\$1,171.21 per unit	\$1,345.36 per unit
Commercial Commodity Charge	\$ 5.69 per 1,000 gal or 134 cft.	\$ 6.54 per 1,000 gal. or 134 cft.

#### **Monthly Charges - Water Distribution Customers Only**

Where water is purchased from a governmental body or agency or other entity for distribution and resale by the Utility, the following rates apply:

#### Residential

Base Facilities Charge per single-family house, condominium, mobile home, or apartment unit Residential Commodity Charge

\$14.64 per unit \$ 6.67 per 1,000 gal. or 134 cft. \$16.82 per unit \$ 8.66 per 1,000 gal.

or 134 cft.

**Exhibit MPS-5** 

Carolina Water Service, Inc. Docket No. 2017-292-WS

D	oeket 110. 2017 272 115	
	Current	<u>Proposed</u>
Commercial		
Base Facilities Charge		
by meter size		
5/8" meter *	\$ 14.64 per unit	\$ 16.82 per unit
3/4" meter	\$ 14.64 per unit	\$ 16.82 per unit
1" meter	\$ 38.10 per unit	\$ 43.77 per unit
1.5" meter	\$ 76.21 per unit	\$ 87.54 per unit
2" meter	\$ 121.93 per unit	\$ 140.06 per unit
3" meter	\$ 228.63 per unit	\$ 262.63 per unit
4" meter	\$ 381.16 per unit	\$ 437.84 per unit
8" meter	\$1,171.21 per unit	\$1,345.36 per unit
Commercial Commodity Charge		
, ,	\$6.67 per 1,000 gal. or 134 cft.	\$8.66 per 1,000 gal. or 134 cft/

<sup>\*</sup>A "Fire Line" customer will be billed a monthly base facilities charge of a 5/8" meter or at the rate of any other meter size used as a detector.

**Exhibit MPS-5** 

Carolina Water Service, Inc. Docket No. 2017-292-WS

#### **Service Territory 2**

#### **Monthly Charges - Water Supply Customers**

Where water is supplied by wells owned and operated by the Utility, the following rates apply:

Residential Base Facilities Charge per single-family	Current	Proposed
house, condominium, mobile home or apartment unit:	\$24.72 per unit	\$29.20 per unit
apartment unit.	\$24.72 per unit	\$29.20 per unit
Residential Commodity Charge	\$ 8.88 per 1,000 gal. or 134 cft.	\$10.49 per 1,000 gal. or 134 cft.
Commercial Base Facilities Charge by meter size		
5/8" meter*	\$ 24.72 per unit	\$ 29.20 per unit
1" meter	\$ 68.81 per unit	\$ 81.28 per unit
1.5" meter	\$ 126.45 per unit	\$149.36 per unit
3" meter	\$ 431.52 per unit	\$509.70 per unit
Commercial Commodity Charge	\$ 8.88 per 1,000 gal. or 134 cft.	\$10.49 per 1,000 gal. or 134 cft.

#### **Monthly Charges - Water Distribution Customers Only**

Where water is purchased from a governmental body or agency or other entity for distribution and resale by the Utility, the following rates apply:

#### Residential

Base Facilities Charge per single-family house, condominium, mobile home or apartment unit:	\$ 24.72 per unit	\$ 29.20 per unit
or apartment unit.	φ 24.72 per unit	ψ 29.20 per unit
Residential Commodity Charge	\$ 9.41 per 1,000 gal. or 134 cft.	\$ 12.19 per 1,000 gal. or 134 cft.
Commercial		
Base Facilities Charge by meter size:		
5/8" meter *	\$ 24.72 per unit	\$ 29.20 per unit
1" meter	\$ 68.81 per unit	\$ 81.28 per unit
1.5" meter	\$ 126.45 per unit	\$149.36 per unit
3" meter	\$ 431.52 per unit	\$509.70 per unit
Commercial Commodity Charge	\$ 9.41 per 1,000 gal. or 134 cft.	\$ 12.19 per 1,000 gal. or 134 cft.

<sup>\*</sup>A "Fire Line" customer will be billed a monthly base facilities charge of a 5/8" meter or at the rate of any other meter size used as a detector.

**Exhibit MPS-5** 

Carolina Water Service, Inc.

Docket No. 2017-292-WS

WATER SERVICE

TERMS AND CONDITIONS

AND

NON-RECURRING CHARGES

#### 1. Terms and Conditions

- A. Where the Utility is required by regulatory authority with jurisdiction over the Utility to interconnect to the water supply system of a government body or agency or other entity and tap/connection/impact fees are imposed by that entity, such tap/connection/impact fees will also be charged to the Utility's affected customers on a pro rata basis, without markup.
- B. Commercial customers are those not included in the residential category above and include, but are not limited to, hotels, stores, restaurants, offices, industry, etc.
- C. The Utility will, for the convenience of the owner, bill a tenant in a multi-unit building, consisting of four or more residential units (or in such other circumstances as the law may allow from time to time), which is served by a master water meter or a single water connection. However, in such cases all arrearages must be satisfied before service will be provided to a new tenant or before interrupted service will be restored. Failure of an owner to pay for services rendered to a tenant in these circumstances may result in service interruptions.
- D. When, because of the method of water line installation utilized by the developer or owner, it is impractical to meter each unit separately, service will be provided through a single meter, and consumption of all units will be averaged; a bill will be calculated based on that average and the result multiplied by the number of units served by a single meter.

#### E. Billing Cycle

Recurring charges will be billed monthly in arrears. Nonrecurring charges will be billed and collected in advance of service being provided.

#### F. Extension of Utility Service Lines and Mains

The Utility shall have no obligation at its expense to extend its utility service lines or mains in order to permit any customer to connect to its water system. However, anyone or entity which is willing to pay all costs associated with extending an appropriately sized and constructed main or utility service line from his/her/its premises to any appropriate connection point, and pay the appropriate fees and charges as set forth in this rate schedule, and comply with the guidelines and standards hereof, shall not be denied service unless water supply is unavailable or unless the South Carolina Department of Health and Environmental Control or other government entity has for any reason restricted the Utility from adding additional customers to the serving water system. In no event will the Utility be required to construct additional water supply capacity to serve any customer or entity without an agreement acceptable to the Utility first having been reached for the payment of all costs associated with adding water supply capacity to the affected water system.

**Exhibit MPS-5** 

Carolina Water Service, Inc. Docket No. 2017-292-WS

#### G. <u>Cross-Connection Inspection</u>

Any customer installing, permitting to be installed, or maintain any cross connection between the Utilities water system and any other non-public water system, sewer, or a line from any container of liquids or other substances, must install an approved back-flow prevention device in accordance with 24A S.C. Code Ann. Regs. R.61-58.7.F.2, as may be amended for time to time. Such a customer shall have such cross connection inspected by a licensed certified tester and provide to Utility a copy of written inspection report indicating the back-flow device is functioning properly and testing results submitted by the tester in accordance with 24A S.C. Code Ann. Regs. R.61-58.7.F.2, as may be amended from time to time. Said report and results must be provided by the customer to the Utility no later June 30th of each year for required commercial customers and no later than June 30<sup>th</sup> of every other year for required residential customers. Should a customer subject to these requirements fail to timely provide such report and results, Utility may arrange for inspection and testing by a licensed certified tester and add the charges incurred by the Utility in that regard to the customer's next bill. If after inspection and testing by the Utility's certified tester, the back-flow device fails to function properly, the customer will be notified and given a 30 day period in which to have the back-flow device repaired or replaced with a subsequent follow-up inspection by a licensed certified tester indicating the back-flow device is functioning properly. Failure to submit a report indicating the back-flow device is functioning properly will result in discontinuation of water service to said customer until such time as a passing inspection report is received by Utility.

- H. A Single Family Equivalent (SFE) shall be determined by using the South Carolina Department of Health and Environmental Control Guidelines for Unit Contributory Loadings for Domestic Wastewater Treatment Facilities -- 6 S.C. Code Ann. Regs. 61-67 Appendix A, as may be amended from time to time. Where applicable, such guidelines shall be used for determination of the appropriate monthly service and tap fee. The Company shall have the right to request and receive water usage records from the water provider to its customers. In addition, the Company shall have the right to conduct an inspection of the customer's premises. If it is determined that actual flows or loadings are greater than the design flows or loadings, then the Company shall recalculate the customer's equivalency rating based on actual flows or loadings and thereafter bill for its services in accordance with such recalculated loadings.
- I. The liability of the Company, its agents and employees for damages arising out of interruption of service or the failure to furnish service, whether caused by acts or omission, shall be limited to those remedies provided in the Public Service Commission's rules and regulations governing water utilities.

**Exhibit MPS-5** 

Carolina Water Service, Inc. Docket No. 2017-292-WS

#### 2. <u>Non-Recurring Charges</u>

- A. Water Service Connection (New connections only) \$300 per SFE
- B. Plant Impact Fee (New connections only) \$400 per SFE

The Plant Capacity Fee reflects the portion of plant capacity which will be used to provide service to the new customers as authorized by Commission Rule R. 103-702.13. The plant capacity fee represents the Utility's investment previously made (or planned to be made) in constructing water production, treatment and/or distribution facilities that are essential to provide adequate water service to the new customer's property.

C. Water Meter Installation - 5/8 inches x 3/4 inches meter

\$45.00

All 5/8 inch x 3/4 inch water meters shall meet the Utility's standards and shall be installed by the Utility. A one-time meter fee of \$45 shall be due upon installation for those locations where no 5/8 inch x 3/4 inch meter has been provided by a developer to the Utility.

For the installation of all other meters, the customer shall be billed for the Utility's actual cost of installation. All such meters shall meet the Utility's standards and be installed by the Utility unless the Utility directs otherwise.

D. Customer Account Charge – (New customers only)

\$30.00

A one-time fee to defray the costs of initiating service.

- E. Reconnection Charges: In addition to any other charges that may be due, in those cases where a customer's service has been disconnected for any reason as set forth in Commission Rule R.103-732.5, a reconnection fee shall be due in the amount of \$40.00 and shall be due prior to the Utility reconnecting service.
- F. Tampering Charge: In the event the Utility's equipment, water mains, water lines, meters, curb stops, service lines, valves or other facilities have been damaged or tampered with by a customer, the Utility may charge the customer responsible for the damage the actual cost of repairing the Utility's equipment, not to exceed \$250. The tampering charge shall be paid in full prior to the Utility re-establishing service or continuing the provision of service.

**Exhibit MPS-5** 

Carolina Water Service, Inc. Docket No. 2017-292-WS SEWER

#### **Service Territory 1 and 2**

(Former customers of Carolina Water Service, Inc., Utilities Services of SC, Inc. and United Utility Companies, Inc.)

#### Monthly Charges – Sewer Collection & Treatment Only

Where sewage collection and treatment are provided through facilities owned and operated by the Utility, the following rates apply:

	Current	<u>Proposed</u>
Residential - charge per single-family house, condominium, villa,		
or apartment unit:	\$57.58 per unit	\$69.76 per unit
Mobile Homes:	\$42.01 per unit	\$50.92 per unit
Commercial	\$57.58 per SFE*	\$69.76 per SFE*

Commercial customers are those not included in the residential category above and include, but are not limited to, hotels, stores, restaurants, offices, industry, etc.

#### Monthly charge - Sewer Collection Only

When sewage is collected by the Utility and transferred to a government body or agency, or other entity for treatment, the Utility's rates are as follows:

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Recidential - ne	r cinale.	_tamily	house
Residential – pe	a singic	-ranny	nouse,

condominium, or apartment unit	\$52.93 per unit	\$69.76 per unit
Commercial	\$52.93 per SFE*	\$69.76 per SFE*
The Village Sewer Collection	\$29.95 per SFE*	\$36.30 per SFE*

<sup>\*</sup> Single Family Equivalent (SFE) shall be determined by using the South Carolina Department of Health and Environmental Control Guidelines for Unit Contributory Loadings for Domestic Wastewater Treatment Facilities -- 25 S.C. Code Ann. Regs. 61-67 Appendix A, as may be amended from time to time. Where applicable, such guidelines shall be used for determination of the appropriate monthly service and tap fee.

Carolina Water Service, Inc. Docket No. 2017-292-WS

SEWER SERVICE
TERMS AND CONDITIONS
AND
NON-RECURRING CHARGES

Please note: The correction noted below reflects testimony given at the hearing held in this matter.

**Exhibit MPS-5** 

#### 1. Terms and Conditions

- A. Where the Utility is required under the terms of a 201/208 Plan, or by other regulatory authority with jurisdiction over the Utility, to interconnect to the sewage treatment system of a government body or agency or other entity and tap/connection/impact fees are imposed by that entity, such tap/connection/impact fees will be charged to the Utility's affected customers on a pro rata basis, without markup.
- B. The Utility will, for the convenience of the owner, bill a tenant in a multi-unit building, consisting of four or more residential units (or in such other circumstances as the law may allow from time to time), which is served by a master sewer meter or a single sewer connection. However, in such cases all arrearages must be satisfied before service will be provided to a new tenant or before interrupted service will be restored. Failure of an owner to pay for services rendered to a tenant in these circumstances may result in service interruptions.

#### C. Billing Cycle

Recurring charges will be billed monthly in arrears. Non-recurring charges will be billed and collected in advance of service being provided.

#### D. Toxic and Pretreatment Effluent Guidelines

The utility will not accept or treat any substance or material that has **mon** been defined by the United States Environmental Protection Agency ("EPA") or the South Carolina Department of Health and Environmental Control ("DHEC") as a toxic pollutant, hazardous waste, or hazardous substance, including pollutants falling within the provisions of 40 CFR 129.4 and 401.15. Additionally, pollutants or pollutant properties subject to 40 CFR 403.5 and 403.6 are to be processed according to pretreatment standards applicable to such pollutants or pollutant properties, and such standards constitute the Utility's minimum pretreatment standards. Any person or entity introducing such prohibited or untreated materials into the Company's sewer system may have service interrupted without notice until such discharges cease, and shall be liable to the Utility for all damages and costs, including reasonable attorney's fees, incurred by the Utility as a result thereof.

#### E. Extension of Utility Service Lines and Mains

The Utility shall have no obligation at its expense to extend its utility service lines or mains in order to permit any customer to discharge acceptable wastewater into one of its sewer systems. However, anyone or entity which is willing to pay all costs associated with extending an appropriately sized and constructed main or utility service line from his/her/its premises to any appropriate connection point, and pay the appropriate fees and charges as set forth in this rate schedule, and comply with the guidelines and standards hereof, shall not be denied service unless sewer capacity is unavailable or unless the South Carolina Department of Health and Environmental Control or other government entity has

# Office of Regulatory Staff Schedule of Proposed Rates and Charges

Carolina Water Service, Inc. Docket No. 2017-292-WS

for any reason restricted the Utility from adding additional customers to the serving sewer system.

In no event will the Utility be required to construct additional sewer treatment capacity to serve any customer or entity without an agreement acceptable to the Utility first having been reached for the payment of all costs associated with adding wastewater treatment capacity to the affected sewer system.

- F. A Single Family Equivalent ("SFE") shall be determined by 6 S.C. Code Ann. Regs. 61-67 Appendix A, as may be amended from time to time. Where applicable, such guidelines shall be used for determination of the appropriate monthly service, plant impact fee and tap fee. The Company shall have the right to request and receive water usage records from the water provider to its customers. In addition, the Company shall have the right to conduct an inspection of the customer's premises. If it is determined that actual flows or loadings are greater than the design flows or loadings, then the Company shall recalculate the customer's equivalency rating based on actual flows or loadings and thereafter bill for its services in accordance with such recalculated loadings.
- G. The liability of the Company, its agents and employees for damages arising out of interruption of service or the failure to furnish service, whether caused by acts or omission, shall be limited to those remedies provided in the Public Service Commission's rules and regulations governing wastewater utilities.

#### 2. **Solids Interceptor Tanks**

For all customers receiving sewage collection service through an approved solids interceptor tank, the following additional charges shall apply:

#### A. Pumping Charge

At such time as the Utility determines through its inspection that excessive solids have accumulated in the interceptor tank, the Utility will arrange for the pumping tank and will include \$150.00 as a separate item in the next regular billing to the customer.

#### B. Pump Repair or Replacement Charge

If a separate pump is required to transport the customer's sewage from solids interceptor tank to the Utility's sewage collection system, the Utility will arrange to have this pump repaired or replaced as required and will include the cost of such repair or replacement as a separate item in the next regular billing to the customer and may be paid for over a one-year period.

#### C. Visual Inspection Port

In order for a customer who uses a solids interceptor tank to receive sewage service from the Utility or to continue to receive such service, the customer shall install at the customer's expense a visual inspection port which will allow for observation of the contents of the solids interceptor tank and extraction of test samples therefrom. Failure to provide such

# Office of Regulatory Staff Schedule of Proposed Rates and Charges

Carolina Water Service, Inc. Docket No. 2017-292-WS

visual inspection port after timely notice of not less than thirty (30) days shall be just cause for interruption of service until a visual inspection port has been installed.

#### 3. <u>Non-recurring Charges</u>

A. Sewer Service Connection (New connections only) \$300 per SFE

B. Plant Capacity Fee (New connections only) \$400 per SFE

The Plant Capacity Fee shall be computed by using South Carolina DHEC "Guide Lines for Unit Contributory Loadings to Wastewater Treatment Facilities" (1972) to determine the single family equivalency rating. The plant capacity fee represents the Utility's investment previously made (or planned to be made) in constructing treatment and/or collection system facilities that are essential to provide adequate treatment and disposal of the wastewater generated by the development of the new property.

The nonrecurring charges listed above are minimum charges and apply even if the equivalency rating of non-residential customer is less than one (1). If the equivalency rating of a non-residential customer is greater than one (1), then the proper charge may be obtained by multiplying the equivalency rating by the appropriate fee. These charges apply and are due at the time new service is applied for, or at the time connection to the sewer system is requested.

#### C. Notification Fee

A fee of \$15.00 shall be charged to each customer per notice to whom the Utility mails the notice as required by Commission Rule R. 103-535.1 prior to service being discontinued. This fee assesses a portion of the clerical and mailing costs of such notices to the customers creating the cost.

D. Customer Account Charge - (New customers only) \$30.00

A one-time fee to defray the costs of initiating service. This charge will be waived if the customer is also a water customer.

- E. Reconnection Charges: In addition to any other charges that may be due, in those cases where a customer's service has been disconnected for any reason as set forth in Commission Rule R. 103-532.4 a reconnection fee in the amount of \$500.00 shall be due at the time the customer reconnects service. Where an elder valve has been previously installed, a reconnection fee of \$40.00 shall be charged.
- F. Tampering Charge: In the event the Utility's equipment, sewage pipes, meters, curb stops, service lines, elder valves or other facilities have been damaged or tampered with by a customer, the Utility may charge the customer responsible for the damage the actual cost of repairing the Utility's equipment, not to exceed \$250. The tampering charge shall be paid in full prior to the Utility re-establishing service or continuing the provision of service.

# Office of Regulatory Staff High Bill Analysis - Water Carolina Water Service, Inc. Docket No. 2017-292-WS

#### **Service Territory #1 Residential Water Customers**

Rate description	Annual Water Consumption	-	Гest Year Total	Average Monthly Bill		After Proposed Increase - Annual Total		Proposed Increase - Annual Total		Average Monthly Bill		Monthly Difference		% Increase
Residential I - Purchased	701,660	\$	4,855.75	\$	404.65	\$	6,280.22	\$	523.35	\$	118.71	29.34%		
Residential I - Purchased	560,540	\$	3,914.48	\$	326.21	\$	5,057.71	\$	421.48	\$	95.27	29.21%		
Residential I - Purchased	488,900	\$	3,436.64	\$	286.39	\$	4,437.10	\$	369.76	\$	83.37	29.11%		
Residential I - Purchased	454,600	\$	3,207.86	\$	267.32	\$	4,139.96	\$	345.00	\$	77.67	29.06%		
Residential I - Purchased	436,690	\$	3,088.40	\$	257.37	\$	3,984.81	\$	332.07	\$	74.70	29.02%		
Residential I - Purchased	399,130	\$	2,837.88	\$	236.49	\$	3,659.43	\$	304.95	\$	68.46	28.95%		
Residential I - Purchased	393,270	\$	2,798.79	\$	233.23	\$	3,608.67	\$	300.72	\$	67.49	28.94%		
Residential I - Purchased	375,920	\$	2,683.07	\$	223.59	\$	3,458.36	\$	288.20	\$	64.61	28.90%		
Residential I - Purchased	360,110	\$	2,577.61	\$	214.80	\$	3,321.40	\$	276.78	\$	61.98	28.86%		
Residential I - Purchased	349,950	\$	2,509.85	\$	209.15	\$	3,233.39	\$	269.45	\$	60.30	28.83%		

#### **Service Territory #1 Commercial Water Customers**

Rate description	Annual Water Consumption	Test Year Total	Average Monthly Bill	After Proposed Increase	Average Monthly Bill	Monthly Difference	% Increase
Commercial I - Purchased 3	4,358,230	\$ 29,245.08	\$ 2,437.09	\$ 37,956.76	\$ 3,163.06	\$ 725.97	29.79%
Commercial I - Purchased 2	3,261,000	\$ 23,214.02	\$ 1,934.50	\$ 29,930.47	\$ 2,494.21	\$ 559.70	28.93%
Commercial I - Purchased 2	3,228,458	\$ 22,996.97	\$ 1,916.41	\$ 29,648.57	\$ 2,470.71	\$ 554.30	28.92%
Commercial I - Purchased 2	2,404,100	\$ 17,498.50	\$ 1,458.21	\$ 22,507.23	\$ 1,875.60	\$ 417.39	28.62%
Commercial I - Purchased 8	586,181	\$ 17,964.32	\$ 1,497.03	\$ 21,222.35	\$ 1,768.53	\$ 271.50	18.14%
Commercial I - Purchased 3	1,975,820	\$ 15,922.32	\$ 1,326.86	\$ 20,267.86	\$ 1,688.99	\$ 362.13	27.29%
Commercial I - Purchased 4	1,556,360	\$ 14,954.89	\$ 1,246.24	\$ 18,736.64	\$ 1,561.39	\$ 315.15	25.29%
Commercial I - Purchased 2	1,768,200	\$ 13,257.04	\$ 1,104.75	\$ 16,998.48	\$ 1,416.54	\$ 311.79	28.22%
Commercial I - Purchased 2	1,559,900	\$ 11,867.68	\$ 988.97	\$ 15,194.00	\$ 1,266.17	\$ 277.19	28.03%
Commercial I - Purchased 3	1,242,100	\$ 11,028.41	\$ 919.03	\$ 13,911.71	\$ 1,159.31	\$ 240.28	26.14%

# Office of Regulatory Staff High Bill Analysis - Water Carolina Water Service, Inc. Docket No. 2017-292-WS

#### **Service Territory #2 Residential Water Customers**

Rate description	Annual Water Consumption	,	Test Year Total	Average nthly Bill	After Proposed Increase	Average onthly Bill	Monthly fference	% Increase
Residential II - Well	1,133,317	\$	10,356.90	\$ 863.08	\$ 12,237.64	\$ 1,019.80	\$ 156.73	18.16%
Residential II - Purchased	1,052,700	\$	10,202.60	\$ 850.22	\$ 13,186.40	\$ 1,098.87	\$ 248.65	29.25%
Residential II - Purchased	1,039,400	\$	10,077.45	\$ 839.79	\$ 13,024.23	\$ 1,085.35	\$ 245.57	29.24%
Residential II - Purchased	956,300	\$	9,295.47	\$ 774.62	\$ 12,010.95	\$ 1,000.91	\$ 226.29	29.21%
Residential II - Purchased	938,400	\$	9,127.04	\$ 760.59	\$ 11,792.69	\$ 982.72	\$ 222.14	29.21%
Residential II - Well	890,780	\$	8,203.95	\$ 683.66	\$ 9,693.69	\$ 807.81	\$ 124.14	18.16%
Residential II - Purchased	804,145	\$	7,863.70	\$ 655.31	\$ 10,155.66	\$ 846.31	\$ 191.00	29.15%
Residential II - Purchased	706,500	\$	6,944.86	\$ 578.74	\$ 8,965.04	\$ 747.09	\$ 168.35	29.09%
Residential II - Purchased	586,700	\$	5,817.54	\$ 484.79	\$ 7,504.27	\$ 625.36	\$ 140.56	28.99%
Residential II - Purchased	533,847	\$	5,320.19	\$ 443.35	\$ 6,859.81	\$ 571.65	\$ 128.30	28.94%

#### **Service Territory #2 Commercial Water Customers**

Rate description	Annual Water Consumption	Test Year Total		Average onthly Bill	After Proposed Increase		Average Monthly Bill		Monthly Difference		% Increase	
Commercial II - 3"	38,100	\$ 5,516.50	\$	459.71	\$	6,516.08	\$	543.01	\$	83.30	18.12%	
Commercial II - 1.5"	240,600	\$ 3,653.13	\$	304.43	\$	4,315.96	\$	359.66	\$	55.24	18.14%	
Commercial II - 1.5"	-	\$ 1,517.38	\$	126.45	\$	1,792.33	\$	149.36	\$	22.91	18.12%	
Commercial II - 5/8"	80,000	\$ 1,303.52	\$	108.63	\$	1,539.88	\$	128.32	\$	19.70	18.13%	
Commercial II - 1"	29,250	\$ 1,085.42	\$	90.45	\$	1,282.13	\$	106.84	\$	16.39	18.12%	

# Office of Regulatory Staff High Bill Analysis - Water Carolina Water Service, Inc. Docket No. 2017-292-WS

#### Service Territory #1 and 2 Sewer Customers

Rate description	SFE Count	Test Year Total	Average Monthly Bill	After Proposed Increase	Average Monthly Bill	Monthly Difference	% Increase
400WWCOM	200	\$ 138,192.00	\$11,516.00	\$ 167,424.00	\$13,952.00	\$ 2,436.00	21.15%
403WWVLG	108	\$ 38,815.20	\$ 3,234.60	\$ 47,044.80	\$ 3,920.40	\$ 685.80	21.20%
400WWRES	80	\$ 55,276.80	\$ 4,606.40	\$ 66,969.60	\$ 5,580.80	\$ 974.40	21.15%
400WWRES	72	\$ 49,749.12	\$ 4,145.76	\$ 60,272.64	\$ 5,022.72	\$ 876.96	21.15%
403WWRES	32	\$ 22,110.72	\$ 1,842.56	\$ 26,787.84	\$ 2,232.32	\$ 389.76	21.15%
400WWCOM	28	\$ 19,346.88	\$ 1,612.24	\$ 23,439.36	\$ 1,953.28	\$ 341.04	21.15%
403WWRES	24	\$ 16,583.04	\$ 1,381.92	\$ 20,090.88	\$ 1,674.24	\$ 292.32	21.15%
400WWCOM	24	\$ 16,583.04	\$ 1,381.92	\$ 20,090.88	\$ 1,674.24	\$ 292.32	21.15%
400WWRBJ	23	\$ 14,608.68	\$ 1,217.39	\$ 19,253.76	\$ 1,604.48	\$ 387.09	31.80%
400WWCOM	17	\$ 11,746.32	\$ 978.86	\$ 14,231.04	\$ 1,185.92	\$ 207.06	21.15%

#### **Palmetto Apartments Inflow and Infiltration Analysis**

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	Subdivision	Units	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	<b>May-17</b>	Jun-17	Jul-17	Aug-17
A	Palmetto Apts	Residential	89.00	90.17	88.00	89.00	92.37	88.93	86.80	88.20	88.40	87.00	88.53	88.60
В	Monthly Rainfall - Beaufort SC	Inches	6.39	14.73	0.09	3.60	4.98	0.84	1.01	3.79	5.96	6.94	5.40	8.18
C	BJWSA Bill	Gallons	539,919	560,181	453,810	402,281	418,238	313,143	313,143	474,943	464,528	677,954	467,022	518,799
D	Billing Period	Days	33.00	30.00	31.00	30.00	30.00	32.00	28.00	31.00	30.00	31.00	30.00	31.00
Е	Average Customer Usage	Avg Gal/SFE/Day	183.83	207.09	166.35	150.67	150.93	110.03	128.84	173.70	175.16	251.37	175.84	188.89
F	Contributory Loading Guidelines	Gal/SFE/Day	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00

DHEC Contributory Loading Guidelines Chapter 61-67 Appendix A requires wastewater facilities to be built with capacity to handle 300 Gallons per Single Family The difference between Rows E and F above show the system is not sending waste to BJWSA out of line with the DHEC requirements for wastewater systems.